

L102 ANSWER 7 OF 19 HCA COPYRIGHT 2008 ACS on STN
AN 129:96671 HCA Full-text

TI Radiation-curable coating compositions for
optical fibers

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SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 10158039 A 19980616 JP 1996-313298

199611

25

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PRAI JP 1996-313298 19961125 <--

OS MARPAT 129:96671

AB The compns. comprise (A) onium borate complexes as
polymn. initiators

consisting of onium cations and borate anions (BYmZn)- (Y =
F, Cl; Z

= Ph substituted by ≥ 2 electron attractive groups selected
from F,

cyano, NO₂, and CF₃; m = 0-3; n = 1-4; m + n = 4) and (B)
acidcurable

compds. Optical fibers coated with the compns. are also
claimed. Thus, a 1-mm quartz rod was coated with a compn.
comprising

diphenyl(9-anthrylmethyl)sulfonium tetrakis

(pentafluorophenyl)borate

3, radically polymerizable compd. Aronix M 1100 40, urethane
acrylate

UA 306H 20, and tetrahydrofurfuryl acrylate 10 parts and
irradiated

with UV to give an optical fiber showing no strain.

IT 153606-14-5

(polymn. initiator; radiation-curable coatings for
optical fibers)

RN 153606-14-5 HCA

CN Iodonium, diphenyl-, tetrakis(2,3,4,5,6-
pentafluorophenyl)borate(1-)

(1:1) (CA INDEX NAME)

CM 1

CRN 47855-94-7

CMF C24 B F20

CM 2

CRN 10182-84-0
CMF C12 H10 I
Ph I + Ph
IC ICM C03C025-02
ICS C09D007-00; G02B006-44
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 73
ST UV curable coating sulfonium borate initiator; optical
fiber coating sulfonium borate catalyst
IT Coating materials
(UV-curable; radiation-curable coatings for
optical fibers)
IT Polymerization catalysts
(photopolymn., onium borate complexes; radiation-curable
coatings for optical fibers)
IT Optical fibers
(radiation-curable coatings for optical fibers)
IT Epoxy resins, uses
(radiation-curable coatings for optical fibers)
IT Coating materials
(radiation-curable; radiation-curable
coatings for optical fibers)
IT 153606-14-5 193957-53-8, Dimethylphenacylsulfonium
tetrakis(pentafluorophenyl)borate 208932-32-5
(polymn. initiator; radiation-curable coatings for
optical fibers)
IT 146320-67-4P
(radiation-curable coatings for optical fibers)
IT 209789-97-9P 209789-98-0P
(radiation-curable coatings for optical fibers)
IT 25085-98-7, ERL 4221
(radiation-curable coatings for optical fibers)